



13. A nucleic acid probe of 5 to 100 nucleotides which hybridizes under stringent conditions to the nucleic acid molecule of SEQ ID No: 1, or to a homolog or complementary or anti-sense sequence of said nucleic acid molecule.

5

10

- 15

20

25

30

21. A vaccine comprising at least one first polypeptide according to claim 15 and a pharmaceutically acceptable carrier,

22. The vaccine of claim 21 wherein the second polypeptide  
5 comprises an additional Chlamydia polypeptide.

10 24. A pharmaceutical composition comprising a vaccine  
according to claim 21 and a pharmaceutically acceptable carrier.

15

27. A method for preventing or treating Chlamydia infection using the vaccine of claim 8.

25 29. A method for preventing or treating Chlamydia  
infection using the polypeptide of claim 15.

30

31. A method of detecting Chlamydia infection comprising the step of assaying a body fluid of a mammal to be tested with the nucleic acid of claim 1.

32. A method of detecting Chlamydia infection comprising the step of assaying a body fluid of a mammal to be tested with the polypeptide of claim 15.

5 33. A method of detecting Chlamydia infection comprising the step of assaying a body fluid of a mammal to be tested with the antibody of claim 20.

34. A method for identifying the polypeptide of claim 15  
10 which induces an immune response effective to prevent or lessen the severity of Chlamydia infection in a mammal previously immunized with polypeptide, comprising the steps of:  
(a) immunizing a mouse with the polypeptide; and  
(b) inoculating the immunized mouse with Chlamydia;  
15 wherein the polypeptide which prevents or lessens the severity of Chlamydia infection in the immunized mouse compared to a non-immunized control mouse is identified.

35. Expression plasmid pCACRMP60.

20 36. A nucleic acid molecule of SEQ ID NO. 3 or 4.

37. A 60kDa cysteine rich membrane protein from Chlamydia.

Added 21

000120-21922500